

Message

From: Pallarino, Bob [Pallarino.Bob@epa.gov]
Sent: 11/28/2016 10:21:33 PM
To: Saguibo, Tracy-Joy I CIV NAVFAC HI, OPHE3 [tracyjoy.saguibo@navy.mil]; Fukumoto, Janice L CIV NAVFAC HI, EV3 [janice.fukumoto@navy.mil]; Waki, Cory K CIV NAVFAC HI, EV1 (cory.waki@navy.mil) [cory.waki@navy.mil]
CC: TU, LYNDSEY [Tu.Lyndsey@epa.gov]; Linder, Steven [Linder.Steven@epa.gov]
Subject: FW: SOPs and Methods and analytes for Red Hill
Attachments: redhill_rev1.xls; SOP 315r7.pdf; SOP 353 R3.pdf; SOP 354 R12.pdf; SOP 375 R5.pdf; SOP 380 R8.pdf; SOP 385 R5.pdf; SOP 505 R9.pdf; SOP 507 R7.pdf; SOP 530 R9.pdf

Tracy and Janice,

Attached are the Region 9 Laboratory SOPs for your review.

Bob

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From: Bauer, Richard
Sent: Friday, November 25, 2016 9:07 AM
To: TU, LYNDSEY <Tu.Lyndsey@epa.gov>
Cc: Pallarino, Bob <Pallarino.Bob@epa.gov>; R9RSCC <R9RSCC@epa.gov>
Subject: SOPs and Methods and analytes for Red Hill

Attached are all of the SOPs listed in the table below. I have also attached an updated spreadsheet with the analyte reporting lists, quantitation limits, etc. that now includes iron, manganese, sulfate and nitrate.

Richard Bauer
US EPA Region 9 Laboratory
1337 South 46th Street, Building 201
Richmond, CA 94804
(510) 412-2312

From: Bauer, Richard
Sent: Wednesday, November 23, 2016 1:01 PM
To: TU, LYNDSEY <Tu.Lyndsey@epa.gov>
Cc: Pallarino, Bob <Pallarino.Bob@epa.gov>; R9RSCC <R9RSCC@epa.gov>
Subject: RE: Methods and analytes for Red Hill

I looked at the planned bottles to be collected at each well by the Navy's contractor. It appears that their list will cover everything we need except for the metals (lead, iron, manganese). The HCl preserved bottle they are collecting for

ferrous iron is unfortunately unsuitable for our purposes. They can either leave that out of our shipment or, as we discussed, ship it and we will discard it upon arrival.

(Note that I have added, in red, the natural attenuation parameters listed on the HBWS list to the list I previously provided.)

If they were to exactly duplicate what they already plan to collect at each well and add one 500 mL plastic with nitric acid (HNO₃) to the list then everything we plan to do would be covered.

One final note is that the HBWS list includes dissolved lead. I propose to perform total lead as this will provide a conservative estimate of dissolved lead and will not require a separate, field-filtered sample bottle.

I'll send you copies of all the SOPs Friday or Monday.

Richard Bauer
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From: Bauer, Richard
Sent: Tuesday, November 15, 2016 2:40 PM
To: TU, LYNDSEY <Tu.Lyndsey@epa.gov>
Cc: Pallarino, Bob <Pallarino.Bob@epa.gov>
Subject: RE: Methods and analytes for Red Hill

These methods and SOPs correspond with the lists of analyses and reporting limits I sent in a spreadsheet in a previous e-mail. Depending on what you are hoping to accomplish by doing this split sampling, you may not necessarily need to choose to have us do all of these.

Analysis	Method	EPA Region 9 Lab SOP
Lead, Manganese	200.8	507
VOCs	524.2	354
VOCs, Low Level	524.2 (SIM)	353
SVOCs	8270D	315
PAHs, Low Level	8270D (SIM)	375
TPH-GRO	8015C	380
TPH-DRO, ORO	8015C	385
Iron	200.7	505
Anions (nitrate, sulfate)	300.0	530

SIM = selective ion monitoring
PAH = polycyclic aromatic hydrocarbons
GRO = gasoline range organics
DRO = diesel range organics
ORO = motor oil range organics

Richard Bauer
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1337 South 46th Street, Building 201
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From: TU, LYNDSEY
Sent: Tuesday, November 15, 2016 1:36 PM
To: Bauer, Richard <Bauer.Richard@epa.gov>
Cc: Pallarino, Bob <Pallarino.Bob@epa.gov>
Subject: RE: Methods and analytes for Red Hill

Thanks Rich,
It seems as though we'll be meeting with someone from Eugenia's group on Thursday. If you could provide me with the reference method/SOP numbers from the lab that would be very helpful. Kathy Baylor provided me with a couple of example plans yesterday so I think I have a good selection of examples for now.

Thanks again!

Lyndsey Tu
Underground Storage Tanks Program
Land Division, U.S. EPA Pacific Southwest
Tu.Lyndsey@epa.gov | 415-972-3269

From: Bauer, Richard
Sent: Monday, November 14, 2016 5:04 PM
To: TU, LYNDSEY <Tu.Lyndsey@epa.gov>
Cc: Pallarino, Bob <Pallarino.Bob@epa.gov>
Subject: RE: Methods and analytes for Red Hill

You can seek some guidance from Eugenia McNaughton in the Quality Assurance Office as to what she would consider the most appropriate planning documents. If the Navy (or their contractor) will actually be collecting both the primary and the split samples and shipping the splits to the Region 9 Laboratory then I would think that a very simple split sampling plan that references the Navy's Sampling and Analysis Plan and identifies the roles and responsibilities of the parties involved in the split sampling should be adequate. At a minimum I think you would want to reference the method numbers and Region 9 Lab SOP numbers for the methods we propose to use. I can supply copies of the actual SOPs if you want to include them as well. Some discussion of what will be done with the split sample results (and by whom) would be appropriate. Let me know if you need tables with method references, SOPs numbers ,etc, and/or copies of the actual SOPs.

Richard Bauer
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From: TU, LYNDSEY
Sent: Monday, November 14, 2016 4:38 PM
To: Bauer, Richard <Bauer.Richard@epa.gov>
Cc: Pallarino, Bob <Pallarino.Bob@epa.gov>
Subject: RE: Methods and analytes for Red Hill

Hi Rich,

I am hoping you can clarify a couple things for me. As the Navy will be collecting the samples, do we need to spend some time comparing the SOP the navy is using with the SOP the R9 lab *would* be using or does it not really matter for this type of analysis? I am also wondering what types of documents (if any) I should start preparing. If the navy is splitting the samples, and no EPA staff will be in the field, do we create an EPA FSP that just closely parallels the Navy's or do we just submit the Navy's documentation and perhaps some statement of purpose from EPA?

Thanks,

Lyndsey Tu
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From: Bauer, Richard
Sent: Thursday, November 10, 2016 4:14 PM
To: Pallarino, Bob <Pallarino.Bob@epa.gov>; TU, LYNDSEY <Tu.Lyndsey@epa.gov>
Subject: Methods and analytes for Red Hill

Bob and Lyndsey:

Attached spreadsheet includes details for reporting limits, analyte, lists QC criteria etc. for methods that you may want to include for upcoming Red Hill split sampling.

Please note:

I have include both standard (full scan) SVOCs by method 8270 and a low level selective ion monitoring method (8270 SIM) for PAHs only. I think the Navy was using the later only. We can do either or both for you.

Feel free to follow up with any questions.

Richard Bauer
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